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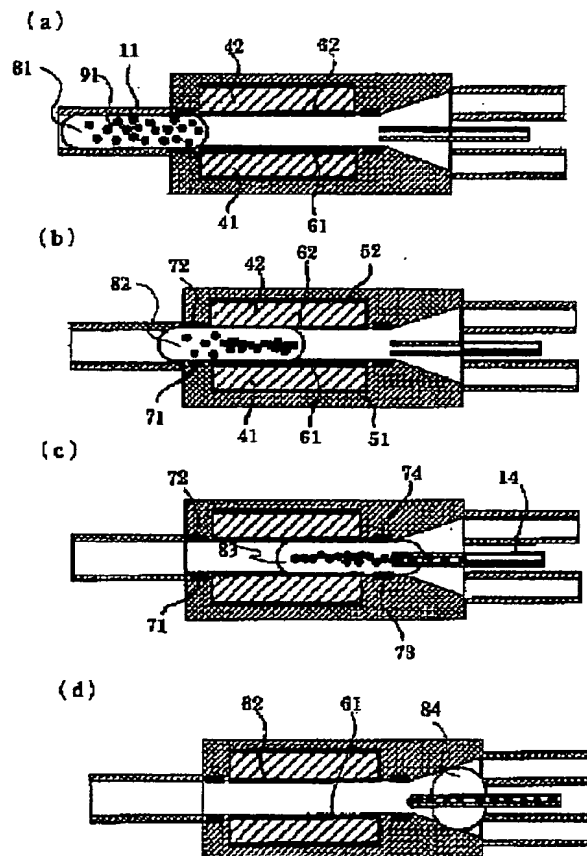
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TITLE : ULTRASONIC TREATING APPARATUS
AND METHOD THEREFOR



ABSTRACT : PROBLEM TO BE SOLVED: To control on-off of emitted ultrasonic wave without observing a sample soln. by a method wherein only when the sample soln. with electrical conductivity reaches an ultrasonic transducer, the ultrasonic transducer is energized through the sample soln. with electrical conductivity and ultrasonic wave is emitted from the ultrasonic transducer.

SOLUTION: Under a condition where a sample soln. 81 contg. fine particles 91 and with electrical conductivity is introduced into a sample soln. introducing pipe 11, as the sample soln. 81 is brought into contact with electrodes 71 and 72 but is not brought into contact with electrode plates 61 and 62, the ultrasonic transducers 41 and 42 are not worked (a condition a). Then, when the sample soln. 82 is forwarded in a container, the electrodes 71 and 72 and the electrode plates 61 and 62 are short-circuited and potential differences are generated between electrode plates 51 and 61 and 52 and 62 between which the ultrasonic transducers 41 and 42 are placed and ultrasonic waves are started to be emitted from the ultrasonic transducers 41 and 42 (a condition b). When the sample soln. 83 is forwarded furthermore, the sample soln. is separated from the electrodes 71 and 72 and is brought into contact with electrodes 73 and 74 and the ultrasonic waves are continuously emitted (a condition c).

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